

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/22/97

Date Received: 08/14/97

Project: Metro Self Monitor M58140

Date Extracted: 08/19/97

Date Analyzed: 08/20/97

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u>	M58140	Method Blank
Analyte:		
Chromium	0.20	<0.05
Copper	0.48	<0.05
Nickel	0.39	<0.05
Zinc	0.06	<0.05

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Date of Report: 08/22/97

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**QUALITY ASSURANCE RESULTS FOR
THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 708052-01 (Duplicate)

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>Relative Percent Difference</u>	<u>Acceptance Criteria</u>
Chromium	mg/L (ppm)	0.20	0.23	14	0-20
Copper	mg/L (ppm)	0.48	0.51	6	0-20
Nickel	mg/L (ppm)	0.39	0.41	5	0-20
Zinc	mg/L (ppm)	0.06	0.07	15	0-20

Laboratory Code: 708052-01 (Matrix Spike)

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Spike Level</u>	<u>Sample Result</u>	<u>% Recovery</u>		<u>Acceptance Criteria</u>	<u>Relative Percent Difference</u>
				<u>MS</u>	<u>MSD</u>		
Chromium	mg/L (ppm)	5	0.20	88	87	80-120	1
Copper	mg/L (ppm)	5	0.48	91	90	80-120	1
Nickel	mg/L (ppm)	10	0.39	91	89	80-120	2
Zinc	mg/L (ppm)	5	0.06	89	88	80-120	1

Laboratory Code: Spike Blank

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Spike Level</u>	<u>% Recovery</u>		<u>Acceptance Criteria</u>	<u>Relative Percent Difference</u>
			<u>MS</u>	<u>MSD</u>		
Chromium	mg/L (ppm)	5	97	98	80-120	1
Copper	mg/L (ppm)	5	98	99	80-120	1
Nickel	mg/L (ppm)	10	102	103	80-120	1
Zinc	mg/L (ppm)	5	99	99	80-120	0

AI

2:30

SAMPLE CHAIN OF CUSTODY

Contact GERALD A. Thompson

Phone # (206) 382-8329

FAX # (206) 382-4309

Date 8-19-97

PROJECT NAME

PURCHASE ORDER #

7258

METRO Self monitor

m 58140

ARS (signature)

PROJECT LOCATION

3200 6th Ave S.

RESULTS

SAMPLE DISPOSAL INFORMATION

Dispose after 30 days
Return Samples
Call for Instructions

[illegible]

SIGNATURE

PRINT NAME

COMPANY

Date _____

Time

Submitted by

GERALD A. Thompson

Acw

8/14/97

1:39

Received by:

KURT JOHNSON

F B I

8/14/97

1:39

Relinquished by:

Received by:

FORMS/COC

06/03/82

AKC-0011385

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

August 22, 1997

DUPLICATE COPY

INVOICE # 97ACU0822-1

Accounts Payable
Alaskan Copper Works
628 Hanford Street
Seattle, WA 98134

RE: Project Metro Self Monitor M58140: Results of testing requested by
Gerald Thompson for material submitted on August 14, 1997.

1 sample analyzed for total metals by
ICP Method 3005/6010 @ \$65 per sample

\$ 65.00

Amount Due

\$ 65.00

FEDERAL TAX ID # (b) (6)

FRIEDMAN & BRUYA, INC.

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3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

August 22, 1997

Gerald Thompson
Alaskan Copper Works
628 Hanford Street
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on August 14, 1997 from your Metro Self Monitor M58140 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kurt Johnson
Chemist

Enclosures

ACU0822R.DOC